UUU	UUU	EEEEEEEEEEEEEE	!!!!!!!!!!!!!!!!	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$	YYY YYY
UUU	UUU	EEEEEEEEEEEE	1111111111111111	РРГРРРРРРРР	SSSSSSSSSSSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP	SSS	AAA AAA
UUU	UUU	EEE	111	PPP PPP	SSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP	\$\$\$	YYY YYY
UUU	UUU	ĒĒĒ	ttt	PPP PPP	SSS	YYY YYY
UUU	UUU	ĒĒĒ	ŤŤŤ	PPP PPP	SSS	777 777
ŬŬŬ	ŬŬŬ	EEEEEEEEEE	ŤŤ	РРРРРРРРРРР	SSSSSSSS	YYY
UUU	ÜÜÜ	EEEEEEEEEEE	ŤŤŤ	PPPPPPPPPPP	SSSSSSSS	ŶŶŶ
UUU	UUU	EEEEEEEEEEE	ŤŤŤ	PPPPPPPPPPP	SSSSSSSS	ŶŶŶ
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	III	PPP	SSS	YYY
UUU	UUU	EEE	III	PPP	SSS	YYY
	UUUUUUUU	EEEEEEEEEEEEEE	III	PPP	SSSSSSSSSSS	YYY
	UUUUUUU	EEEEEEEEEEEEE	III	PPP	22222222222	AAA
UUUUUUU	UUUUUUUU	EEEEEEEEEEEEE	111	PPP	SSSSSSSSSS	YYY



SATSSS42 Table of contents	SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00
(1) 55 (1) 111 (1) 148 (1) 247 (1) 335 (1) 428 (1) 569	DECLARATIONS CONDITION TABLES TM SETUP, TM CLEANUP CONDITION SUBROUTINES - SETUP AND CLEANUP FORM CONDS VERIFY VFY_CLEANUP

SATSSS42 SATS SYSTEM SERVICE TESTS SFORCEX (SUCC S.C.)

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FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)

ABSTRACT:

THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS42 TO TEST SUCCESSFUL OPERATION OF THE \$FORCEX SYSTEM SERVICE. THE SERVICE IS INVOKED UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY CHECKING FOR AN SS\$ NORMAL STATUS CODE, EXPECTED RE RN ARGUMENTS AND EXPECTED FUNCTIONALITY PERFORMED.

ENVIRONMENT: USER MODE IMAGE: NEEDS CMKRNL PRIVILEGE, DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.

AUTHOR: THOMAS L. CAFARELLA,

CREATION DATE: MAR, 1978

MODIFIED BY:

V03-001 LDJ0001 23-Jun-1983 Larry D. Jones, Removed the quota list to force the use of the default sysboot quota values.

```
SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 Page 2 DECLARATIONS 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR:1 (1)
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| SBTTL DECLARATIONS | SPRUDE | SPRUDE
```

SATSSS42 V04-000

SAT Sym

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SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 Page 4
DECLARATIONS S-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1 (1)

00000000 00000008 0000 0000000C 0008 000C 00000074 000C 00000014 0010 00000088 0014 0000008C 0088 008C 00000110 010C 00000114 0110 000000114 0110 00000011C 0118 0000011C 0118 RWDATA, RD, WRT, NOEXE, LONG ADDR OF PRIVILEGE MASK (IN PHD) CHAN. NO. FOR MAILBOX FOR CREATED PROCESS CHANNEL INFO RETURNED BY GETCHN PRIVMASK: MBXCHAN: .BLKQ MBXCHANINFO: DIB\$K_LENGTH . LONG ADDRESS .+4
BLKB DIBSK_LENGTH 101 102 103 104 105 106 107 108 109 MBXUNIT:
MBXBUFF:
DEST_PIDADR:
ZEROPID:
CREATING_PID:
CREATED_PID:
EXP_STATUS: SAVE AREA FOR MAILBOX UNIT NUMBER MAILBOX BUFFER FOR CREATED PROCESS DESTINATION PID ADDR, WRITTEN BY S.S. PID OF ZEROES PID OF CREATED PROCESS PID OF CREATED PROCESS EXPECTED STATUS CODE FROM CREATED PROC .BLKL STRING 0.120 .BLKL .BLKL .LONG .BLKL .BLKL

> SAB ROD RWD SAT

SAT

SAT

Pha

Ini Com Pas Sym Pas Sym Pse Cro Ass The 515 The 624

```
SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 CONDITION TABLES 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
                                              .SBTTL CONDITION TABLES
                                              **** CONDITION TABLES FOR FORCEX SYSTEM SERVICE ****
                                                          1, NOTARG, <PID ADDRESS>, -
<NOT SPECIFIED>, -
<SPECIFIED, NON-ZERO>, -
<SPECIFIED, ZERO>, -
                                              COND
00000000°
00000118°
00000110°
                                                                 .ADDRESS
.ADDRESS
                                                                                    CREATED_PID
                                                          2.NOTARG. <PROCESS NAME ADDRESS>,-
<SPECIFIED>,-
<NOT SPECIFIED>,-
                                              COND
                                                                                   CREATED_PRN
000000591
                                                                 . ADDRESS
00000000
                                                                 . ADDRESS
                                              COND
                                                           3, NOTARG, < CREATED PROCESS TYPE>,-
                                                              <SUBPROCESS> .-
                                                             <DETACHED, DIFFERENT GROUP>,-
<DETACHED, SAME GROUP, SAME MEMBER>,-
<DETACHED, SAME GROUP, DIFFERENT MEMBER>,-
                                                                                                     : PSEUDO-UIC
: UIC
: UIC
; UIC
00000000
                                                                 . LONG
00000251
00000255
00000259
                                                                 .BLKL
                                                                 .BLKL
                                                                 .BLKL
                                              COND
                                                          4, NULL
                                              COND
                                                          5. NULL
         0000000
                                              .PSECT SATSSS42, RD, WRT, EXE
```

SAT VAX

(1)

Mac ---\$2 -\$2 701

934

The MAC

TO.5\$ KRNL : KERNEL MODE TO ACCESS PHD GET PROCESS HEADER ADDRESS PHD GET PRIVMSK (R9) PRIVMSK : GET PRIV MASK ADDRESS FROM, 5\$: BACK TO USER MODE

: GET ALL PRIVILEGES

DO

59 00000000°9F 69

MODE

MOVL MOVAL MODE

ADD, ALL

SAT

```
SATSSS42
V04-000
```

0000016B'EF42

00000110'8F

000001AD 'EF43

```
SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
                                                                                                                                                                                               Page
                                                  .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
                                     FUNCTIONAL DESCRIPTION:
                                     CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES, ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
                                      CALLING SEQUENCE:
                                                  BSBW CONDX BSBW CONDX_CLEANUP WHERE X = 1,2,3,4,5
                                      INPUT PARAMETERS:
                                                 CONFLICT = 0
                                      IMPLICIT INPUTS:
                                                  R2.3,4.5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
                                                      FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
                                      OUTPUT PARAMETERS:
                                                  CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
                                      IMPLICIT OUTPUTS:
                         288345678901234567890123
22222222222222222222223553
                                                  R2.3.4.5.6 PRESERVED
                                      COMPLETION CODES:
                                                  NONE
                                      SIDE EFFECTS:
                                                  NONE
                                  COND1::
  05
                                                                                                                     : RETURN TO MAIN ROUTINE
                                  COND1_CLEANUP::
  05
                                                                                                                      : RETURN TO MAIN ROUTINE
                                                  RSB
```

: PID SPECIFIED AS 0 ?? : NO -- NO CONFLICT : YES -- IS THERE A PROCESS NAME ??

COND2::

CMPL

TSTL

BNEQU

#ZEROPID.COND1_E[R2]

CONDEX

COND2_E[R3]

```
SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:31:22 CUETPSY.SRCJSATSSS42.MAR;1
SATSSS42
V04-000
                                                                                                        : YES -- NO CONFLICT
; NO -- INDICATE CONFLICT BECAUSE THIS TYPE
                      00000000 EF
                                       90
                                                                   BNEQU
                                                                            COND2X
      00000000'EF
                                                                            ONES, CONFLICT
                                                                   BVOM
                                                                                                         : ... OF FORCEX WOULD EXIT CREATING IMAGE
                                                         COND2X:
                                       05
                                                                                                         : RETURN TO MAIN ROUTINE
                                                         COND2_CLEANUP::
                                       05
                                                                   RSB
                                                                                                         : RETURN TO MAIN ROUTINE
                                                         COND3::
                                       D1
13
D5
13
   0000016B'EF42
                      00000118'8F
                                                                            #CREATED_PID, COND1_E[R2] ; NON-ZERO PID SPECIFIED ?
                                                                                                          YES -- NO CONFLICT
IS PROCESS NAME SPECIFIED ?
                                                                            COND3X
                                                                   BEQLU
                    000001AD 'EF43
                                                                            CONDZ E[R3]
                                                                   TSTL
                                                                                                           NO -- NO CONFLICT
                                                                  BEQL
                                                           NOTE -- AT THIS POINT, PROCESS WILL BE REFERENCED BY PROCESS NAME.
                      01 54
00000000°EF
                                       D1
12
90
                                                                                                           DOES CONDITION 3 SPECIFY DIFFERENT GROUP ?
                                                                   BNEQ
                                                                            COND3X
                                                                                                           NO -- NO CONFLICT
      00000000 EF
                                                                            ONES, CONFLICT
                                                                                                         : YES -- PROCESS NAME FOR DIFF GROUP IS CONF
                                                                   MOVB
                                                         COND3x:
                                       05
                                                                                                         : RETURN TO MAIN ROUTINE
                                                         COND3_CLEANUP::
                                       05
                                                                                                         : RETURN TO MAIN ROUTINE
                                                                   RSB
                                                         COND4::
                                       05
                                                                                                         : RETURN TO MAIN ROUTINE
                                                         COND4_CLEANUP::
                                             CDB
                                       05
                                                                  RSB
                                                                                                         : RETURN TO MAIN ROUTINE
                                                     330
                                                         COND5::
                                            02DC
                                       05
                                            02DC
                                                                                                         : RETURN TO MAIN ROUTINE
                                                         COND5_CLEANUP::
                                            02DD
                                       05
                                            02DD
                                                                                                         : RETURN TO MAIN ROUTINE
                                                                   RSB
```

```
SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 FORM_CONDS S-SEP-1984 04:31:22
SATSSS42
V04-000
                                                                                                                                                                                                                                                                                                                                                                                     VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS42.MAR;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10
                                                                                                                                                                                                                             .SBTTL FORM_CONDS
                                                                                                                                                                                                   FUNCTIONAL DESCRIPTION:
                                                                                                                                                                                                                                                           FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
                                                                                                                                                                                                        THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                                                                                                                                                                                                     CALLING SEQUENCE:
                                                                                                                                                                                                                            BSBW FORM_CONDS
                                                                                                                                                                                                     INPUT PARAMETERS:
                                                                                                                                                                                                                            NONE
                                                                                                                                                                                                     IMPLICIT INPUTS:
                                                                                                                                                                                                                          R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX T - TITLE TEXT FOR CONDX TABLE

CONDX TAB - ELEMENT TEXT FOR CONDX TABLE

CONDX C - CONTEXT OF THE CONDX TABLE

CONDX E - DATA ELEMENTS OF THE CONDX TABLE
                                                                                                                                                                                                    OUTPUT PARAMETERS:
                                                                                                                                                                                                                            NONE
                                                                                                                                                                                                     IMPLICIT OUTPUTS:
                                                                                                                                                                                                                            NONE
                                                                                                                                                                                                     COMPLETION CODES:
                                                                                                                                                                                                                            NONE
                                                                                                                                                                                                    SIDE EFFECTS:
                                                                                                                                                                                                                            NONE
                                                                                                                                                                                             FORM_CONDS::
                                                                                                                                                                                                                                                          MSG1_INP_CTL, FAO_LEN, FAO_DESC, TESTNUM
                                                                                                                                                                                                                             SFAD_S
                                                                                                                                                                                                                                                                                                                                                                 FORMAT CONDITIONS HEADER MSG
                                                                                                                                                                                                                                                           OUTPUT_MSG
#COND1_C,#NULL
                                                                                                      FD00
                                                                                                                                 30
91
12
31
                                                                                                                                                                                                                            BSBW
                                                                                                                                                                                                                                                                                                                                                                                 AND PRINT IT
                                                                                                                                                                                                                                                                                                                                                                 IS CONDITION 1 NULL ?
                                                                                                               00
                                                                                                                                                                                                                             CMPB
                                                                                                                                                                                                                                                                                                                                                                 NO -- CONTINUE
                                                                                                                                                                                                                             BNEQU
                                                                                                       OOBF
                                                                                                                                                                                                                             BRW
                                                                                                                                                                                                                                                            FORM_CONDSX
                                                                                                                                                                                                                                                                                                                                                                  YES -- SUBROUTINE IS FINISHED
                                                                                                                                                                                              105:
                                                       EF 00000120'EF 00000000'EF 00
                                                                                                                                                                                                                            MOVAL CONDITIONS A SAVE ADDRESS OF CONDITION 1 TITLE FOR MOVE CONDITIONS B SAVE ADDR OF CONDITIONS TEXT ELT FOR MOVE CONDITIONS CONTROL SAVE CONDITIONS CONTROL FOR FACE CONDITIONS CONDITIONS CONTROL FOR FACE CONDITIONS C
                                                                                                                                                                                                                                                                                                                                                                SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO SAVE CONDITION 1 CONTEXT FOR FAO
            00000000'EF
                                                                                                                                 DE
00
90
```

53

21 6E 70 2E

74 40 41

77

: RETURN TO CALLER

RSB

05

0307

SAT

V04

.SBTTL VERIFY

: FUNCTIONAL DESCRIPTION:

VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2.3.4.5.6 FOR COND TABLES 1.2.3.4.5. RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE (\$FORCEX). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY, HROUGH THE SS CHECK MACRO); ERR EXIT SETS EFLAG TO NON-ZERO, PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER. WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED, AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.

CALLING SEQUENCE:

BSBW VERIFY

INPUT PARAMETERS:

NONE

455678946544654468947734475

0368

03CB

0308

03C8 03C8

0308

03C8

03C8 03C8 IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5;

CÓNDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM FOR CONDX E.

DUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS, IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED ERRORS.

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

74

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SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 5-SEP-1984 04:31:22
SATSSS42
V04-000
                                                                                                                                                  VAX/VMS Macro VO4-00
[UETPSY.SRC]SATSSS42.MAR; 1
                                                                    488
489
490
491
492
493
                                                                          VERIFY::
                                                   95
13
30
                                                                                       TSTB
                                                                                                   CFLAG
                             00000000°EF
                                                                                                                                          SHOULD CONDITIONS BE PRINTED ?
                                                         03CE
                                                                                       BEQL
                                                                                                                                           NO -- CONTINUE
                                                                                                   FORM_CONDS
                                        FFOB
                                                                                       BSBW
                                                                                                                                           YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
                                                                          58:
                                                                    494
                             00000110'EF
                                                   04
                                                         03D3
                                                                                                   ZEROPID
                                                                                                                                           CLEAR ZERO PID
                                                                                      SCREPRC_S PIDADR=CREATED_PID, PRCNAM=CREATED_PRN, -
UIC=COND3_E[R4J, IMAGE=IMAGNAM, -
MBXUNT=MBXUNIT;, QUOTA=QUOTALIST
                                                         0309
                                                                    496
                                                         03D9
                                                         0309
                                                                                                                                          CREATE A PROCESS TO BE FORCEX'D
... AND MAKE SURE IT CREATED OK
WAKE SELF IN 1 MIN IF CREATED PROC DOESN'T
CHECK FOR NORMAL RETURN
SLEEP UNTIL CREATED PROC IS FULLY CREATED
                                                         0410
0410
043E
0451
047F
                                                                    498
                                                                                      SS_CHECK NORMAL
$SCHOWK S DAYTIM=ONE_MIN
SS_CHECK NORMAL
                                                                    499
500
501
502
503
504
505
                                                                                       SHIBER S
                                                                                      SS CHECK NORMAL
SCANWAK S
SS_CHECK NORMAL
                                                         0486
                                                                                                                                           EXPECT NORMAL RETURN
                                                         0484
                                                                                                                                           GET RID OF SCHEDULED WAKE-UP
                                                         04BF
                                                                                                                                           CHECK FOR NORMAL STATUS RETURN
                                                         04ED
04ED
                                                                    506
507
                                                                             SCHEDULED WAKE-UP WILL ONLY BE EFFECTED IF CREATED PROCESS DOES NOT GET FULLY CREATED. IN THIS CASE, THE SUBJECT SYSTEM SERVICE BELOW WILL FAIL WITH AN APPROPRIATE ERROR CONDITION.
                                                         04ED
                                                                    508
                                                         04ED
                                                                    509
                                                         04ED
                                                                    510
                                                         04ED
                                                         04ED
                                                                             THE FOLLOWING CODE LOOKS FOR THE SPECIAL CASE OF NO PID SPECIFIED
                                                                             AND NO PROCESS NAME SPECIFIED IN CONDITION TABLES. IF THIS CASE
                                                         04ED
                                                                             IS PRESENT, FORCEX IS NOT ISSUED HERE, BUT, INSTEAD, A SWAKE IS ISSUED FOR THE CREATED PROCESS, WHICH, IN TURN, ISSUES A SFORCEX TO FORCE ITS OWN EXIT. FOR ALL GTHER CASES, THE CREATED PROCESS IS FORCED TO EXIT BY A SFORCEX ISSUED HERE IN THIS PROCESS.
                                                         04ED
                                                         04ED
                                                         04ED
                                                         04ED
                                                         04ED
                                                  D5
12
D5
12
                                                         04ED
                                                                                                   COND1_E[R2]
                                                                                                                                           IS PIDADR SPECIFIED ??
                          0000016B'EF42
                                                                                       TSTL
                                                                                                                                           YES -- NO SPECIAL CASE -- CONTINUE
                                                         04F4
                                                                                       BNEQU
                                                                                                   10$
                          000001AD'EF
                                                         04F6
                                                                                       TSTL
                                                                                                   COND2_E[R3]
                                                                                                                                           NO -- HOW ABOUT PROCESS NAME ??
                                                                    IT EXISTS -- A NORMAL CASE
NO PIDADE OF PIDADE SPECIFIED
                                                         04FD
                                                                                       BNEQU
                                                                                                   105
                                                         04FF
                                                                                       SWAKE_S PIDADR=CREATED_PID
                                                         050E
                                                                                                                                           WAKE CREATED PROCESS TO FORCE ITSELF
                                                                                       SS_CHECK NORMAL
                                                                                                                                           CHECK FOR NORMAL STATUS RETURN
                                                                                                                                           ... SET UP EXPECTED STATUS CODE ... AND GO WAIT FOR ITS MAIL
                                                   DO
31
                                                                                                  CREATED_PID.EXP_STATUS
       0000011C'EF
                             00000118'EF
010E
                                                                                       MOVL
                                                                                       BRW
                                                                          105:
                                                         054A
054A
                                                                             SET UP TO ISSUE SUBJECT SFORCEX IN THIS PROCESS
                                                                                                   CREATING PID. EXP_STATUS : SET UP EXPECTED STATUS CODE COND1_EER2].DEST_PIDADR : GET PID ADDRESS OUT OF TABLE COND2_EER3],R9 : PRCNAM ADDR INTO REG FOR INCOME.
                             00000114'EF
        0000011C'EF
                                                                                       MOVL
    0000010C 'EF
                          0000016B'EF42
                                                   DO
                                                                                       MOVL
                                                                                                                                           GET PID ADDRESS OUT OF TABLE
                                                         0561
0569
0569
0569
0569
                                                                                                                                        : PRCNAM ADDR INTO REG FOR INDIRECT REF'RNCE
                          000001AD'EF43
                                                   DO
                                                                                       MOVL
                                                                             ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
                                                                                       $FORCEX_S PIDADR=@DEST_PIDADR, PRCNAM=(R9), -
                                                                                                      CODE=EXP STATUS
                                                                                                   RO #SSS_NORMAL
                      00000000 8F
                                                                                       CMPL
                                                                                                                                        : CODE RECEIVED = CODE EXPECTED ?
                                                                                       BEQLU
                                                                                                                                        : YES -- CONTINUE
```

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SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 VERIFY 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
SATSSS42
V04-000
                  EF 00000000'8F 00000000'EF 50
      00000000'EF
                                           D0
                                                                                    #SS$ NORMAL, EXPV
RO, RECV
                                                                                                                       NO -- LOAD UP EXPECTED AND
                                                                                                                       ... RECEIVED VALUES, THEN EXIT
                                                                          MOVL
                                                          544
545 15$:
546
547
548
549
                                                                          ERR_EXIT LONG, < INCORRECT STATUS CODE RETURNED FROM FORCEX>
                         0000010C'EF
                                                                                                                     : PID RETURNED BY FORCEX ?
                                                                                     DEST_PIDADR
                                                                          TSTL
                                                                                    CREATED_PID. adest_PIDADR; YES -- IS IT THE CORRECT ONE ?
                                                                          BEQL
                                           D1
13
00
00
                         00000118'EF
      0000010C'FF
                                                                          CMPL
                                                                                                                    : YES -- CONTINUE
                                                                          BEQL
                                                                          MOVL CREATED PID EXPV : NO --LOAD UP E)
MOVL adest PIDADR RECV : RECEIVED V/
ERR_EXIT LONG, < INCORRECT PID RETURNED BY FORCEX>
                                                                                                                      NO -- LOAD UP EXPECTED AND ... RECEIVED VALUES, THEN EXIT
      00000000'EF
                         00000118'EF
      00000000 'EF
                         0000010C'FF
                                                 0608
                                                 0613
                                                 0658
0658
0658
0658
0658
                                                               205:
                                                                  CREATED PROCESS HAS BEEN FORCEX'D (BY THIS PROCESS OR BY ITSELF)
                                                                          $QIOW_S CHAN=MBXCHAN, FUNC=#IO$ READVBLK, -
P1=MBXBUFF+8, P2=MBXBUFF
                                                 0681
                                                                                                                       WAIT FOR CREATED PROCESS TO SEND MAIL
                                                 0681
                                                          560
561
562
563
564
565
566
                                                                                                                       CHECK FOR NORMAL STATUS CODE
                                                                          SS_CHECK NORMAL
                                                 06AF
                                                                          CMPL
                                                                                     MBXBUFF+12, EXP_STATUS
      0000011C'EF
                         00000098'EF
                                           D1
13
                                                                                                                       CREATED PROC RETURN EXPECTED EXIT STATUS ?
                                                 06BA
                                                                                                                       YES -- ALL IS OK
NO -- LOAD UP EXPECTED AND
                                                                                     VERIFYX
                                                                          BEQLU
      00000000'EF
                                                06BC
06C7
                                                                                     EXP STATUS, EXPV MBXBUFF+12, RECV
                                           DO
                         0000011C'EF
                                                                          MOVL
                         00000098'EF
                                           DO
                                                                          MOVL
                                                                                                                       ... RECEIVED VALUES, THEN EXIT
                                                 06D2
0725
                                                                          ERR_EXIT LONG, < INCORRECT EXIT STATUS CODE RETURNED IN MAILBOX>
                                                                VERIFYX:
                                                 0725
                                           05
                                                                          RSB
                                                                                                                     : RETURN TO CALLER
```

```
SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 VFY_CLEANUP S-SEP-1984 04:31:22 (UETPSY.SRCJSATSSS42.MAR;1
                                                                                                                                   15
                                 .SBTTL VFY_CLEANUP
                      : FUNCTIONAL DESCRIPTION:
```

VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERR EXIT ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING, WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN POSSIBLY DISCOVERING ASSECTIVE PROPERTY. POSSIBLY DISCOVERING A SECOND ERROR.

CALLING SEQUENCE:

BSBW VFY_CLEANUP

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY. FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM FOR CONDX_E.

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

NONE

610 611

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

VFY_CLEANUP:: SDELPRC_S PRCNAM=CREATED_PRN RSB .END

; DELETE CREATED PROCESS (IF STILL HERE) RETURN TO CALLER

```
SATS SYSTEM SERVICE TESTS $FORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 Page 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
  SATSSS42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16
 Symbol table
                                                                                                                    = 00000010 R
0000010C R
= 00000074
= 0000000C
                                                                                                                                                                                                                             DESC
DEST PIDADR
DIBSK_LENGTH
DIBSW_UNIT
EFLAG
 5555
 SSSCHARS
 $$$CHARS1
 $$$CHARS
 $$$CHARS
                                                                                                                                                                                                                                                                                                                                                            *******
                                                                                                                                                                                                                                                                                                                                                                                                                     042434444424
                                                                                                                                                                                                                               EQUIV_PID
 $$$CHARS4
                                                                                                                                                                                                                                                                                                                                                            0000009E R
 $$$CHARS5
                                                                                                                                                                                                                                EXPV
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                              EXPVEXP STATUS
FAO DESC
FAO LEN
FORM CONDS
FORM CONDSX
IMAGNAM
 SSSCOND A
SSSSTRINGS
                                                                                                                                                                                                                                                                                                                                                            0000011C R
                                                                                                                                                                                                                                                                                                                                                            ******
 $$$STRINGS2
                                                                                                                                                                                                                                                                                                                                                            *******
                                                                                                                                                                                                                                                                                                                                                           000002DE RG
000003C7 R
0000006D R
 SST1
SST2
BYTE
                                                                                                                                                                                                                              IOS READVBLK
LOGSC SYSTEM
LOGNAM_PID
 CFLAG
                                                                                                                                ******
                                                                                                                                                                                        00000
                                                                                                                                                                                                                                                                                                                                                            *******
                                                                                                                                                                                                                                                                                                                                                   = 00000000
                                                                                                                                *******
 CHMRTN
                                                                                                                                                                                                                                                                                                                                                   = 00000000 R
= 00000004 G
0000008C R
00000008 R
0000000C R
00000088 R
 CHM CONT
COMP SC
CONDT
                                                                                                                               *******
                                                                                                                                                                                                                                                                                                                                                                                                                      02
                                                                                                                               *******
                                                                                                                                                                                                                               LONG
                                                                                                                     = 0000028B RG

0000028C RG

0000012C RG

0000012D R

0000012D R

000002AF R

000002AF RG

000002BO RG

0000018C RG

0000018C RG

0000018C RG

0000018D RG

0000018D RG

000001BD RG

000002DB RG

000002DB RG

000001CA RG

000001CB RG

000002DB RG

0000025A RG

0000025A RG

0000025A RG
                                                                                                                                                                                                                               MBXBUFF
                                                                                                                                                                                                                                                                                                                                                                                                                      033334422444
COND1 C
COND1 CLEANUP
COND1 E
COND1 H
COND1 T
COND1 TAB
COND2
                                                                                                                                                                                                                              MBXCHAN
                                                                                                                                                                                                                              MBXCHANINFO
                                                                                                                                                                                        043333344
                                                                                                                                                                                                                              MBXUNIT
                                                                                                                                                                                                                             MOD_MSG_CODE
MOD_MSG_PRINT
MSGT_INP_CTL
MSG3_ERR_CTL
MSG_A
MSG_B
MSG_CTXT
NOTARG
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                                                                                                                                             ******
                                                                                                                                                                                                                                                                                                                                                            00000019 R
00000039 RG
 COND2X
                                                                                                                                                                                                                                                                                                                                                            *******
COND2_C
COND2_CLEANUP
COND2_E
COND2_H
COND2_T
COND2_TAB
COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND3_COND
                                                                                                                                                                                                                                                                                                                                                            ******
                                                                                                                                                                                        043333344
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                                                                                                                                    = 00000000
                                                                                                                                                                                                                                                                                                                                                    = 00000014
                                                                                                                                                                                                                              NULL
                                                                                                                                                                                                                                                                                                                                                                                                                     04
                                                                                                                                                                                                                                                                                                                                                            ******
                                                                                                                                                                                                                             ONE MIN
OUTPUT MSG
PCB$L_UIC
                                                                                                                                                                                                                                                                                                                                                            00000051 R
                                                                                                                                                                                                                                                                                                                                                            ******
  COND3X
                                                                                                                                                                                                                                                                                                                                                    = 000000BC
COND3_C
COND3_CLEANUP
COND3_E
COND3_H
COND3_T
COND3_TAB
COND4_C
                                                                                                                                                                                                                                                                                                                                                                                                                      04
                                                                                                                                                                                                                              PCV
                                                                                                                                                                                                                                                                                                                                                            *******
                                                                                                                                                                                                                              PHDSQ PRIVMSK
PRIVMASK
                                                                                                                                                                                       04333334
                                                                                                                                                                                                                                                                                                                                                    = 00000000
                                                                                                                                                                                                                                                                                                                                                            00000000 R
                                                                                                                                                                                                                                                                                                                                                                                                                      03
                                                                                                                                                                                                                             PRIV ARGS
PROCESS_ERR
                                                                                                                                                                                                                                                                                                                                                    = 00000002
                                                                                                                                                                                                                                                                                                                                                                                                                      04
                                                                                                                                                                                                                                                                                                                                                           *******
                                                                                                                                                                                                                                                                                                                                                    = 00000008
                                                                                                                                                                                                                              QUAD
                                                                                                                                                                                                                                                                                                                                                                                                   G
                                                                                                                                                                                                                              RECV
                                                                                                                                                                                                                                                                                                                                                            ******
 COND4 C
COND4 CLEANUP
COND4 H
COND4 T
COND4 TAB
COND5 C
COND5 C
COND5 C
COND5 T
COND5 T
COND5 T
COND5 TAB
CONFLICT
CREATED PID
                                                                                                                                                                                                                             REST_REGS
SAVE_REGS
SCH$GL_CURPCB
SS$_NORMAL
SUCCESS
                                                                                                                                                                                                                                                                                                                                                            *******
                                                                                                                                                                                                                                                                                                                                                                                                                      044444
                                                                                                                                                                                       0400000
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                               SYS$CANWAK
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                SYS$CMKRNL
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                                                                                                                                                                                   GX
                                                                                                                                                                                        SYS$CRELOG
                                                                                                                                                                                                                                                                                                                                                                                                   GX
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                SYS$CREMBX
                                                                                                                                                                                                                                                                                                                                                                                                   GX
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                SYS$CREPRC
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                                                                                                                                                                                   GX
                                                                                                                                                                                                                                SYS$DELLOG
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                                                                                                                                                                                   GX
                                                                                                                               00000118 R
00000059 R
00000114 R
                                                                                                                                                                         X
                                                                                                                                                                                                                                SYS$DELMBX
                                                                                                                                                                                                                                                                                                                                                             *******
                                                                                                                                                                                                                                                                                                                                                                                                   GX
 CREATED PID
CREATED PRN
CREATING PID
                                                                                                                                                                                                                                SYS$DELPRC
                                                                                                                                                                                                                                                                                                                                                              *******
                                                                                                                                                                                                                                                                                                                                                                                                   GX
                                                                                                                                                                                                                                SYS$FAO
                                                                                                                                                                                                                                                                                                                                                             ******
                                                                                                                                                                                                                                SYS$FORCEX
                                                                                                                                                                                                                                                                                                                                                             ******
 CTL$GL_PAD
                                                                                                                                                                                                                                SYS$GETCHN
                                                                                                                                                                                                                                                                                                                                                             *******
```

```
SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 5-SEP-1984 04:31:22
                                                                                                                                    VAX/VMS Macro V04-00
EUETPSY.SRC3SATSSS42.MAR;1
SATSSS42
Symbol table
                                                                                                                                                                                    (1)
SYS$HIBER
                                                                   SYS$QIOW
SYS$SCHOWK
                                              *******
                                              *******
SYS$SETPRN
                                              *******
                                              *******
SYS$SETPRV
                                              *******
SYS$WAKE
TESTNUM
                                              *******
TEST_MOD_NAME_D
TEST_MOD_SUCC
TMD_ADDR
                                              00000000
                                           00000268 RG
00000000 RG
000003C8 RG
00000725 R
00000726 RG
= 00000002 G
TM_CLEANUP
TM_SETUP
VERIFY
VERIFYX
WORD CLEANUP
WRITE_MSG2
                                              ******
ZEROPID
                                              00000110 R
                                                                     Psect synopsis
PSECT name
                                                                         PSECT No.
                                                                                        Attributes
                                             Allocation
-----
    ABS
                                             00000000
                                                                 0.)
                                                                                        NOPIC
                                                                                                                            LCL NOSHR NOEXE NORD
                                                                                                                    ABS
                                                                                                                                                           NOWRT NOVEC BYTE
                                                                         01
                                                                                        NOPIC
                                                                                                            CON
                                                                                                                    ABS
SABS$
                                             00000000
                                                                                                   USR
                                                                                                                                 NOSHR
                                                                                                                                            EXE
                                                                                                                                                     RD
                                                                                                                                                                   NOVEC BYTE
                                                                                                                            LCL
                                                                                 1.)
                                                                        02
                                                              166.)
                                                                                        NOPIC
                                                                                                            CON
                                                                                                                    REL
                                             000000A6
                                                                                                   USR
                                                                                                                                 NOSHR NOEXE
                                                                                                                                                                   NOVEC LONG
RODATA
                                                                                                                                                     RD
                                                                                                                                                           NOWRT
                                                                                                            CON
                                             0000025B
                                                                                        NOPIC
                                                                                                   USR
                                                                                                                    REL
                                                                                                                                 NOSHR NOEXE
                                                                                                                                                     RD
                                                                                                                                                             WRT NOVEC LONG
RWDATA
                                             00000736
                                                                                                                            LCL NOSHR
                                                                                                                                            EXE
                                                                                                                                                              WRT NOVEC BYTE
                                                                                        NOPIC
                                                                                                            CON
                                                                                                                                                     RD
SATSSS42
                                                                 Performance indicators
                                   Page faults
Phase
                                                        CPU Time
                                                                             Elapsed Time
----
                                                                            00:00:00.37
00:00:02.18
00:00:20.20
00:00:00.81
00:00:03.22
00:00:00.12
00:00:00.03
                                                        00:00:00.07
Initialization
                                                       00:00:00.07

00:00:00.61

00:00:09.72

00:00:00.79

00:00:00.10

00:00:00.00

00:00:00.00
Command processing
                                             316
Pass 1
Symbol table sort
Pass 2
Symbol table output
```

The working set limit was 1350 pages.
51508 bytes (101 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 510 non-local and 48 local symbols.
624 source lines were read in Pass 1, producing 26 object records in Pass 2.
51 pages of virtual memory were used to define 41 macros.

Psect synopsis output Cross-reference output Assembler run totals

SATSSS42
VAX-11 Macro Run Statistics

SATS SYSTEM SERVICE TESTS \$FORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 Page 18 (1)

! Macro library statistics !

Macro library name
_\$255\$DUA28:[SHRLIB]UETP.MLB;1
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

Macros defined

934 GETS were required to define 38 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS42/OBJ=OBJ\$:SATSSS42 MSRC\$:SATSSS42/UPDATE=(ENH\$:SATSSS42)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0423 AH-BT13A-SE

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